



0837RF-H547-US

FIG. 1

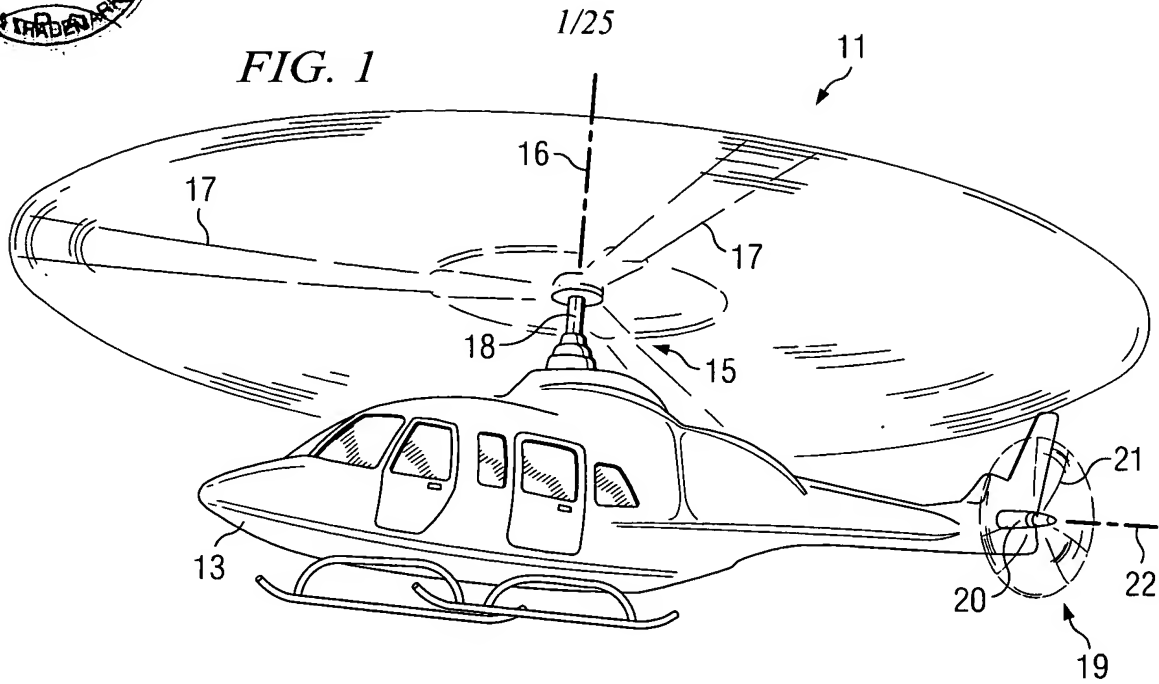
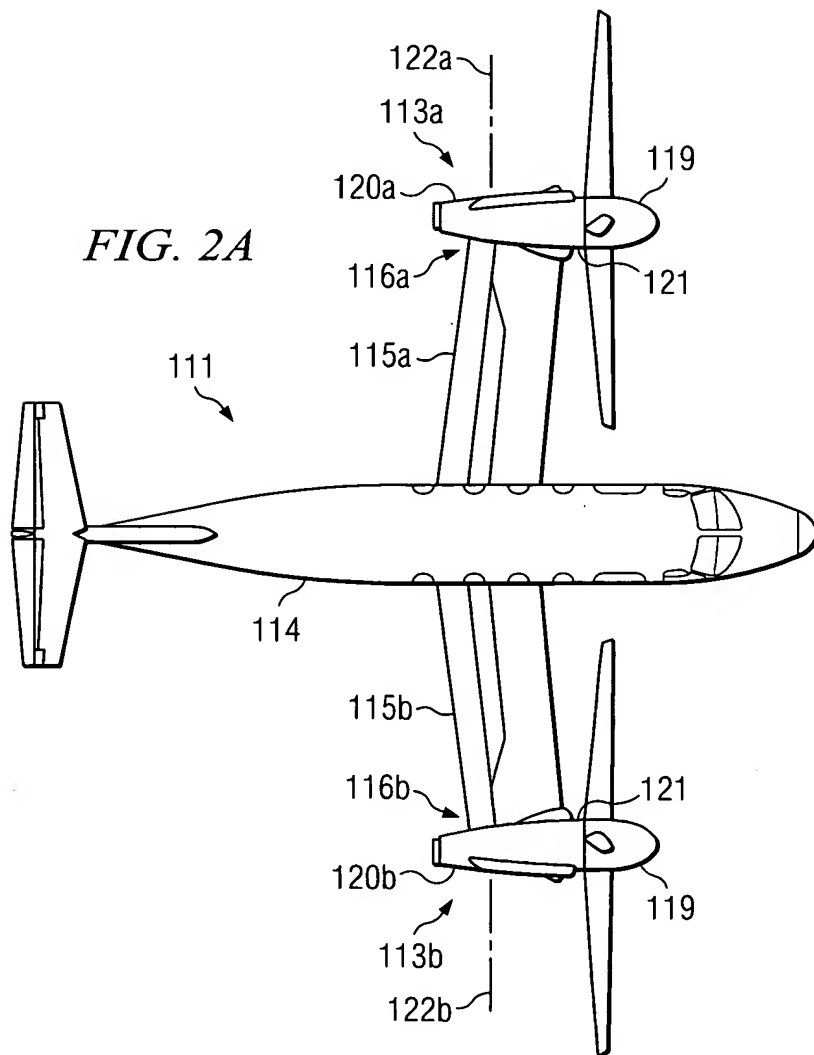
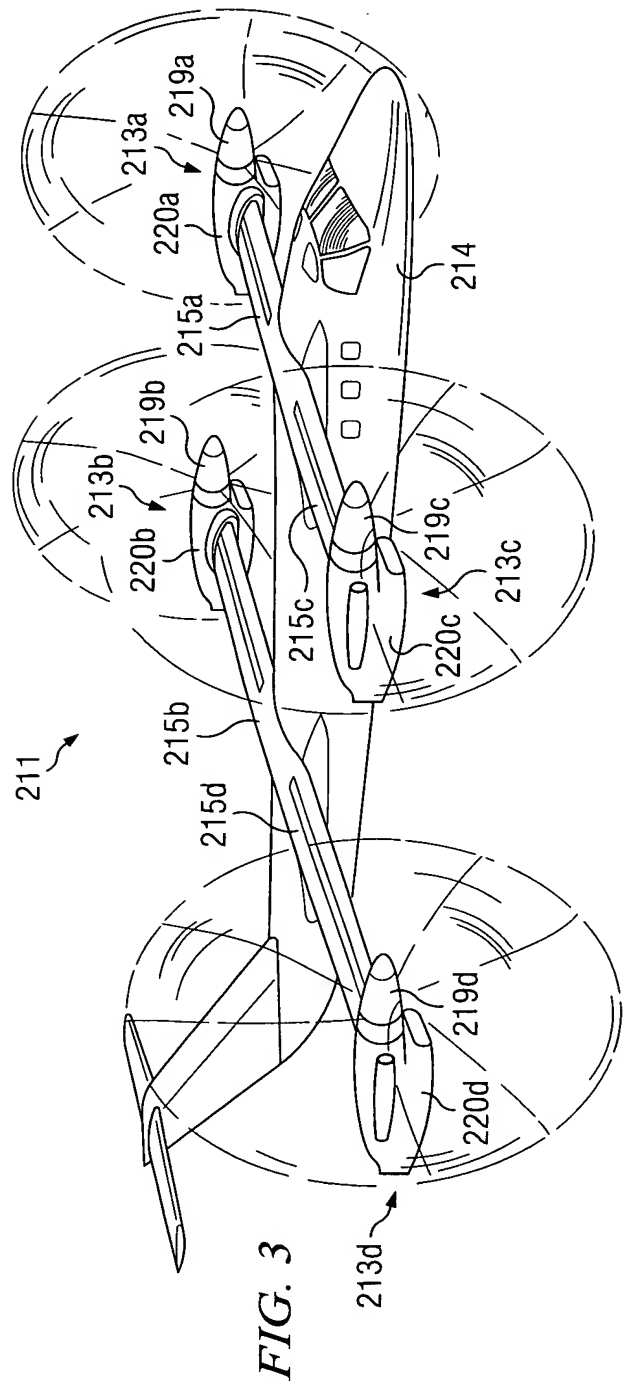
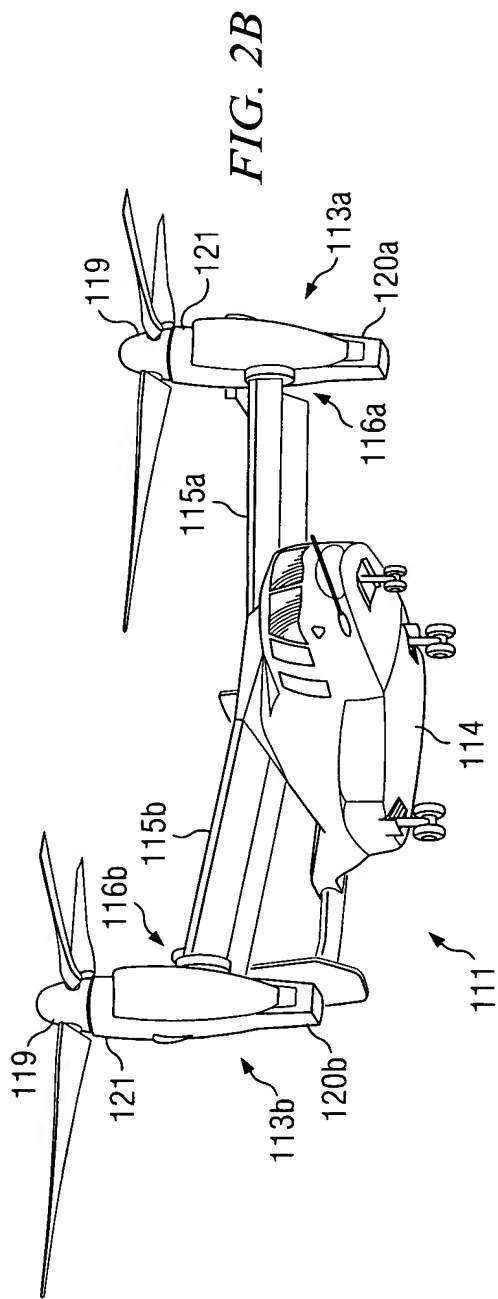


FIG. 2A





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FIG. 4A
(PRIOR ART)

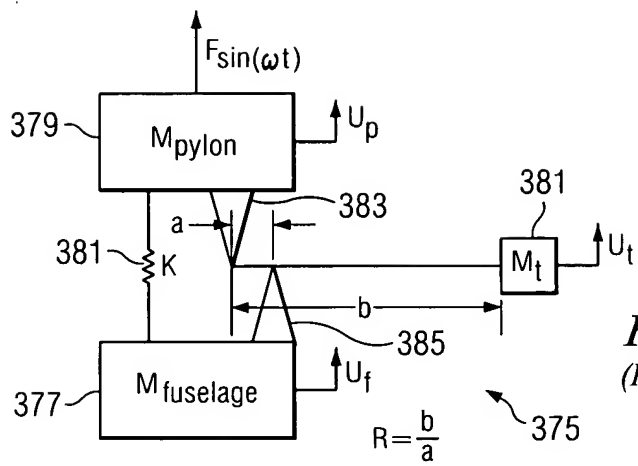
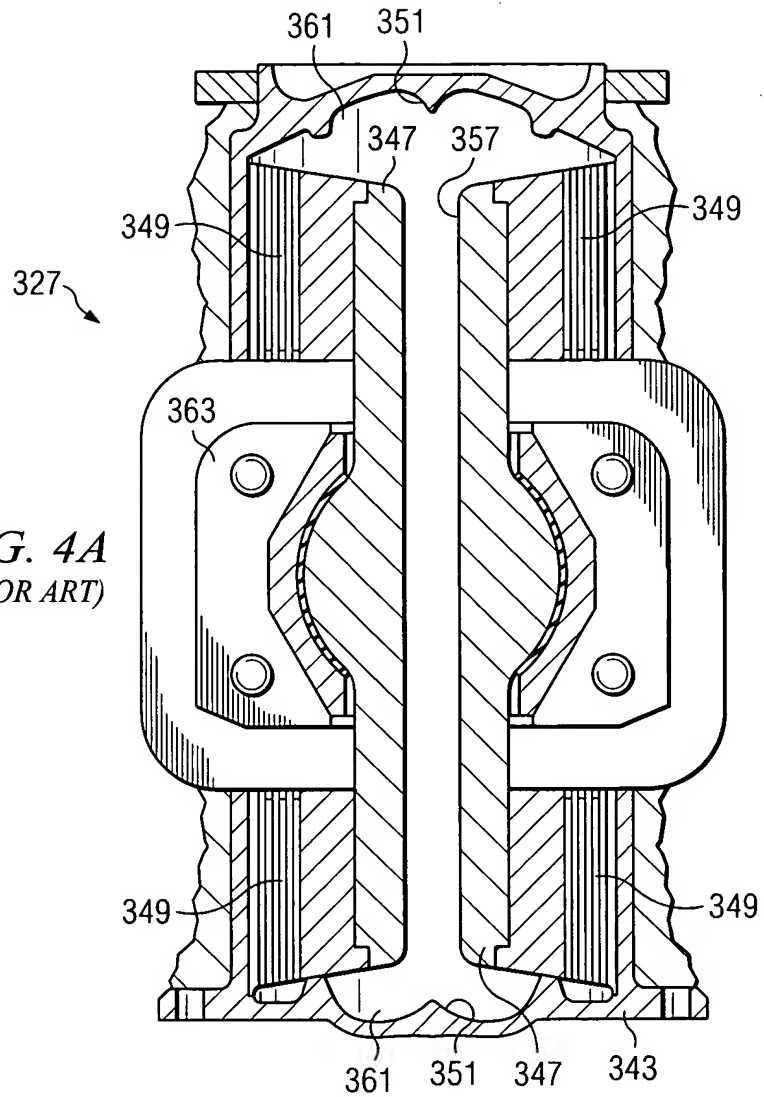


FIG. 4B
(PRIOR ART)

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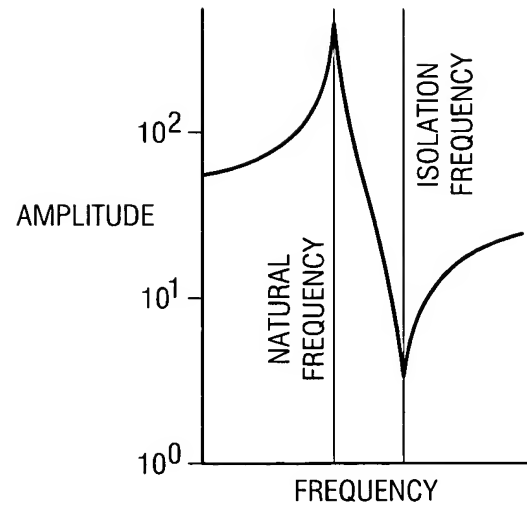


FIG. 4C
(PRIOR ART)

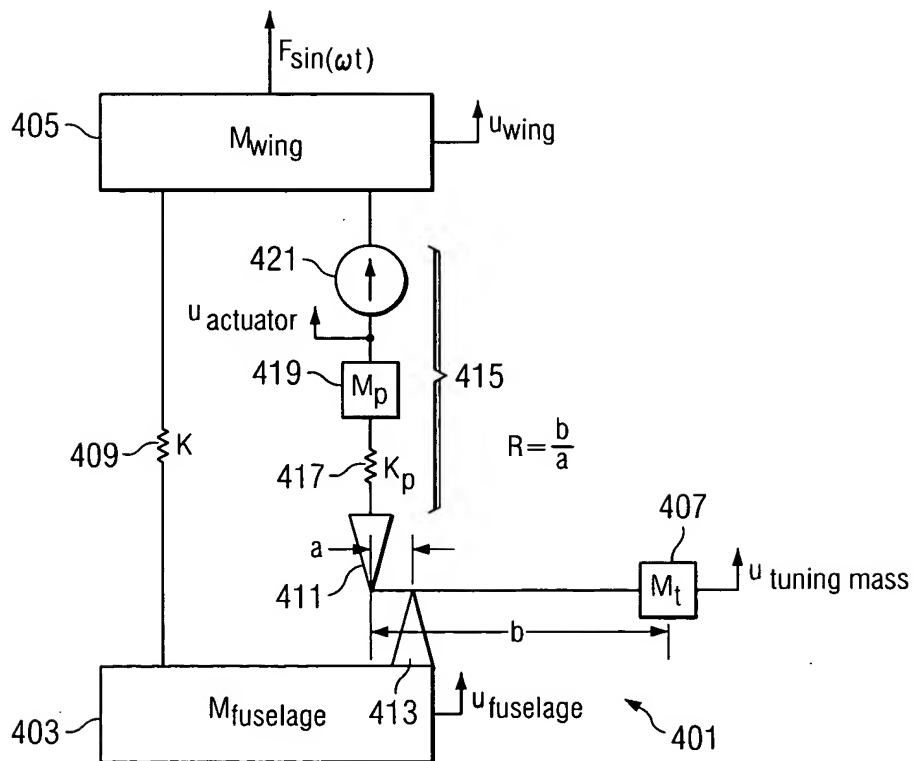


FIG. 5A

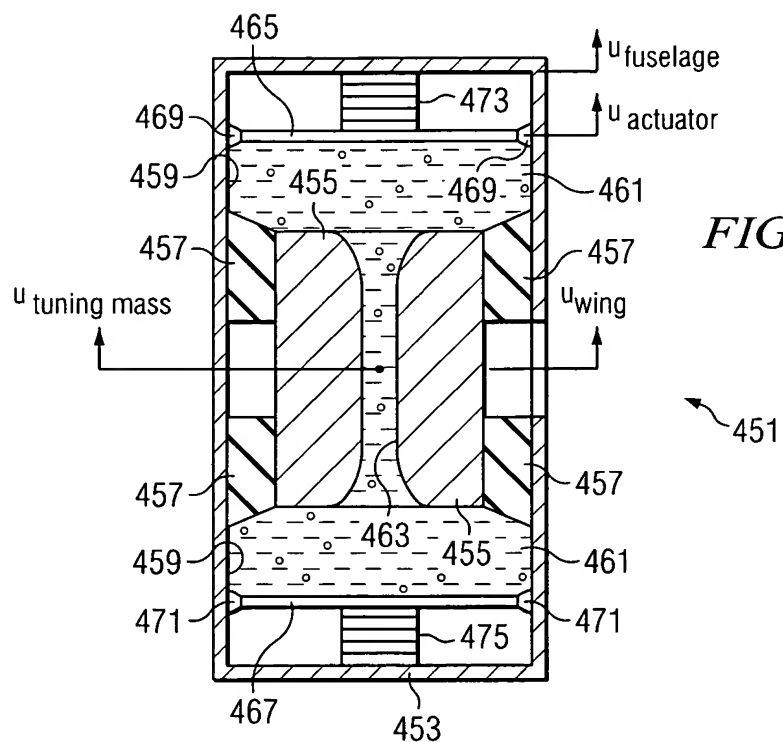


FIG. 5B

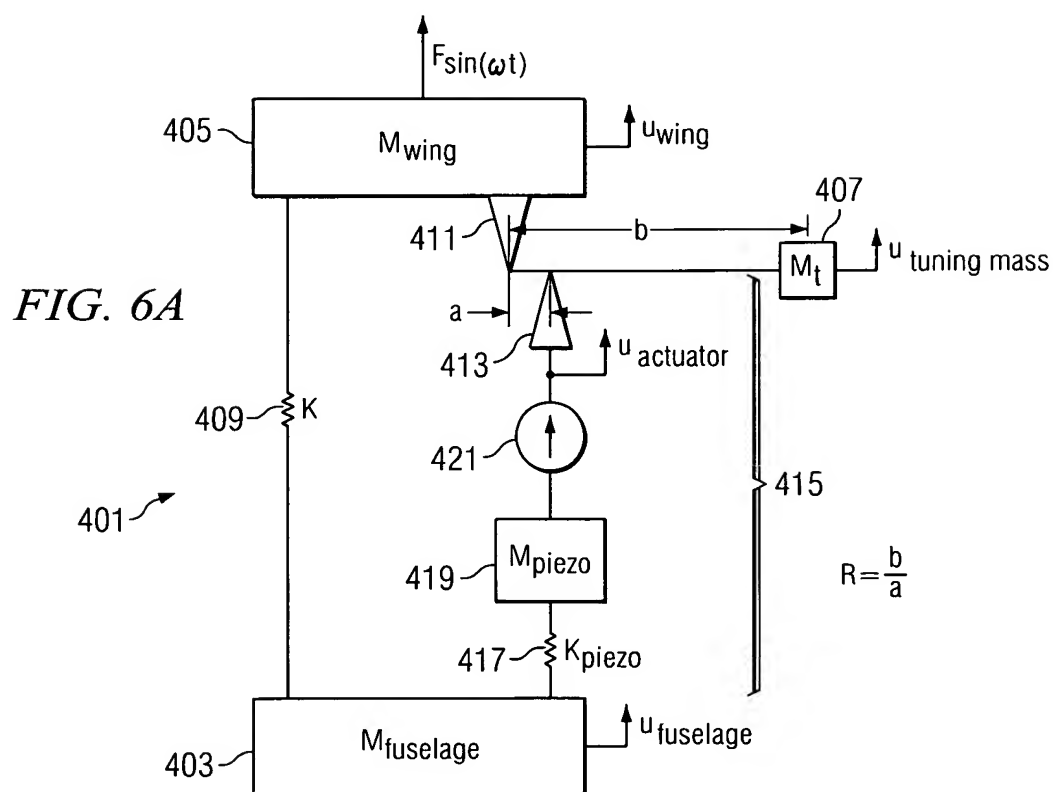


FIG. 6B

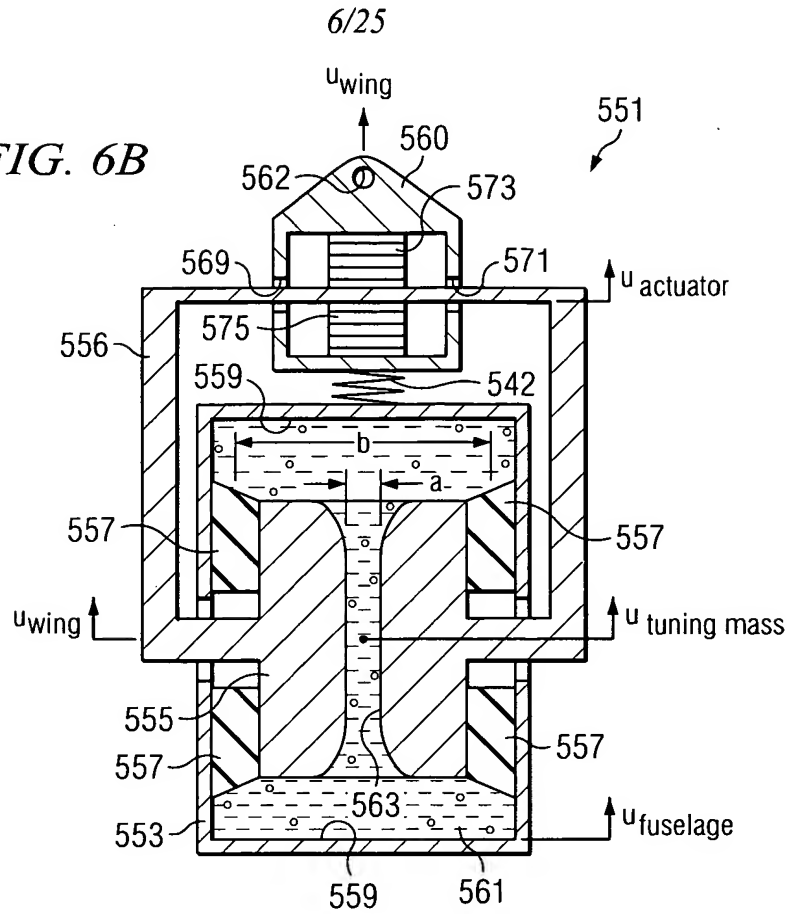


FIG. 7A

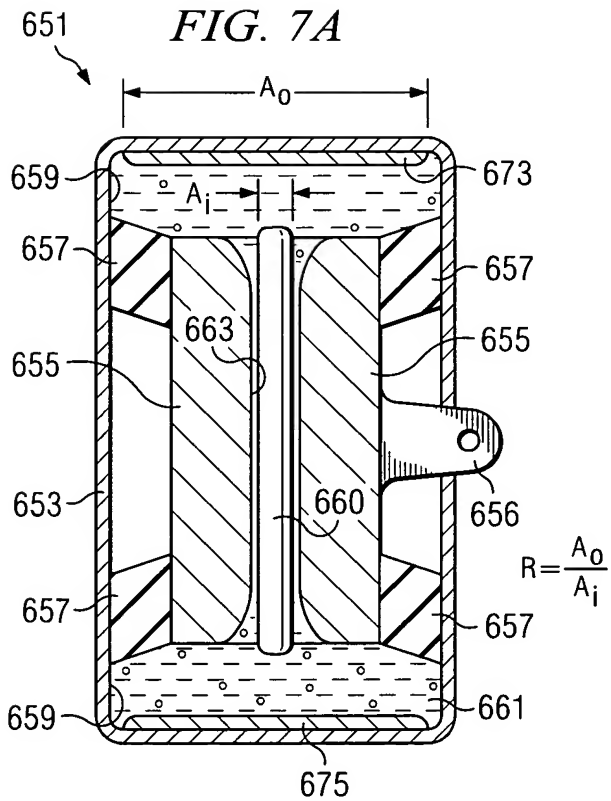
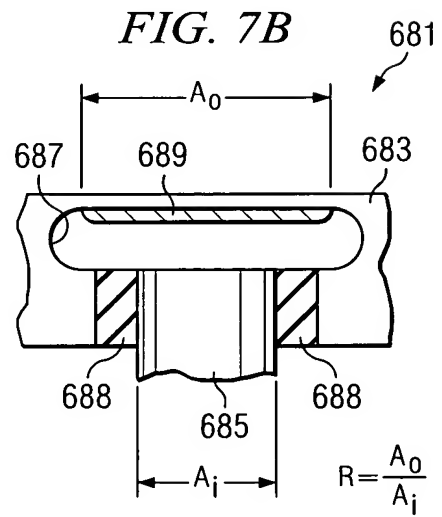


FIG. 7B



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FIG. 7C

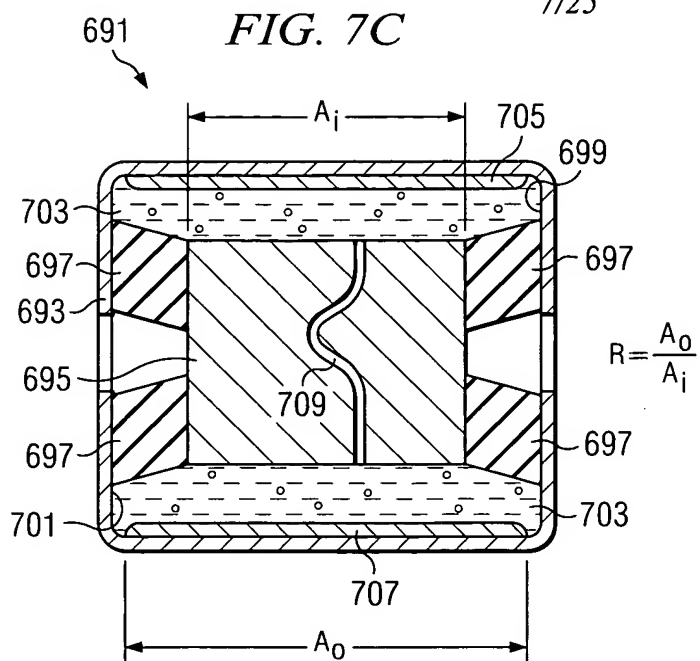
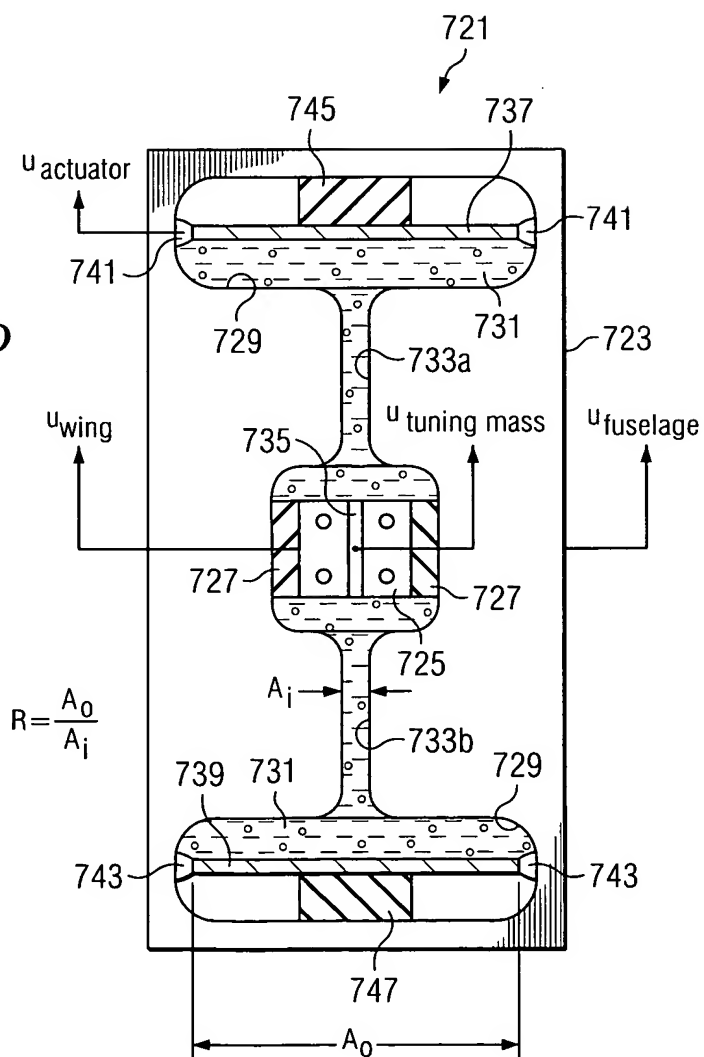
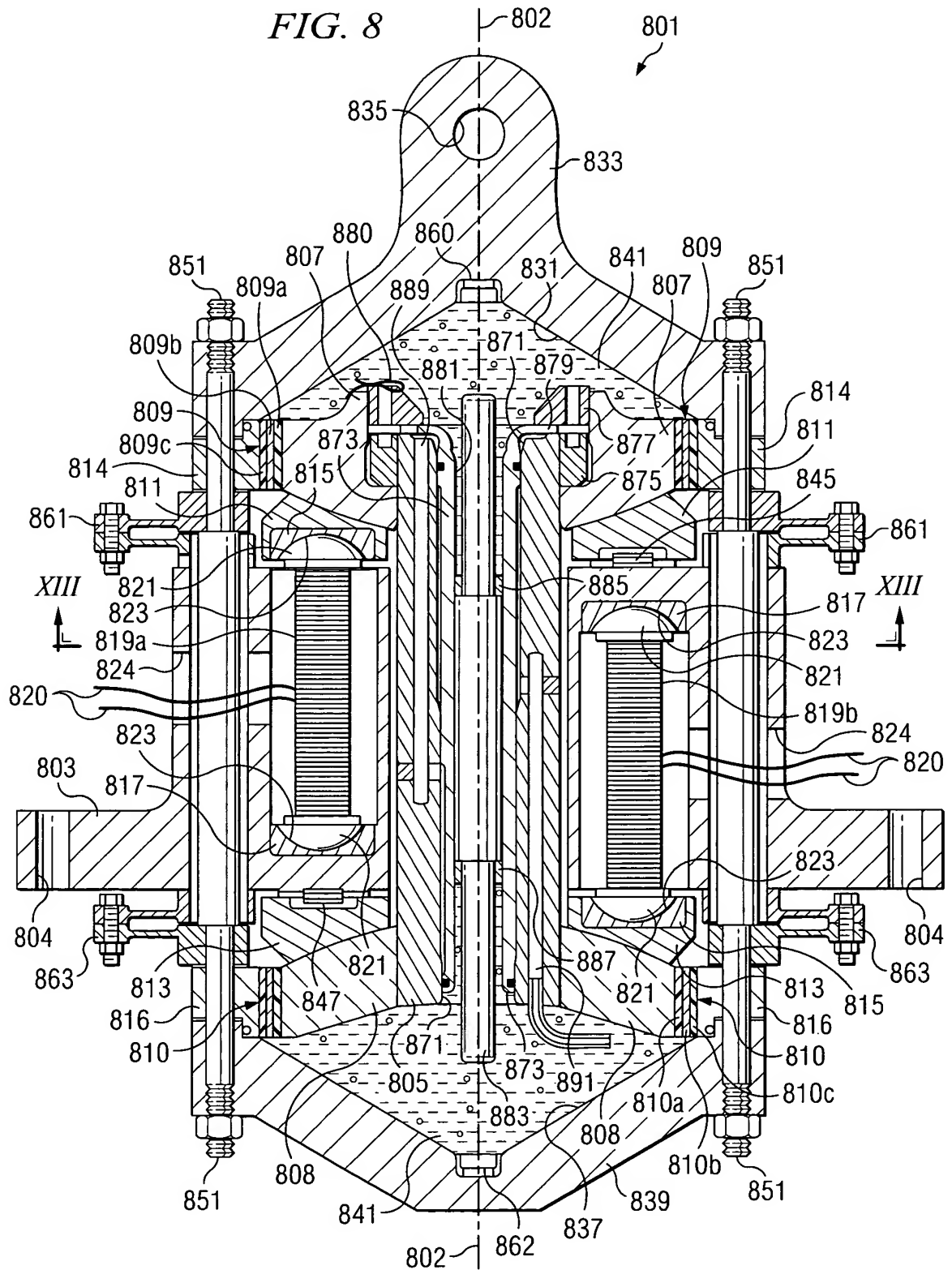


FIG. 7D



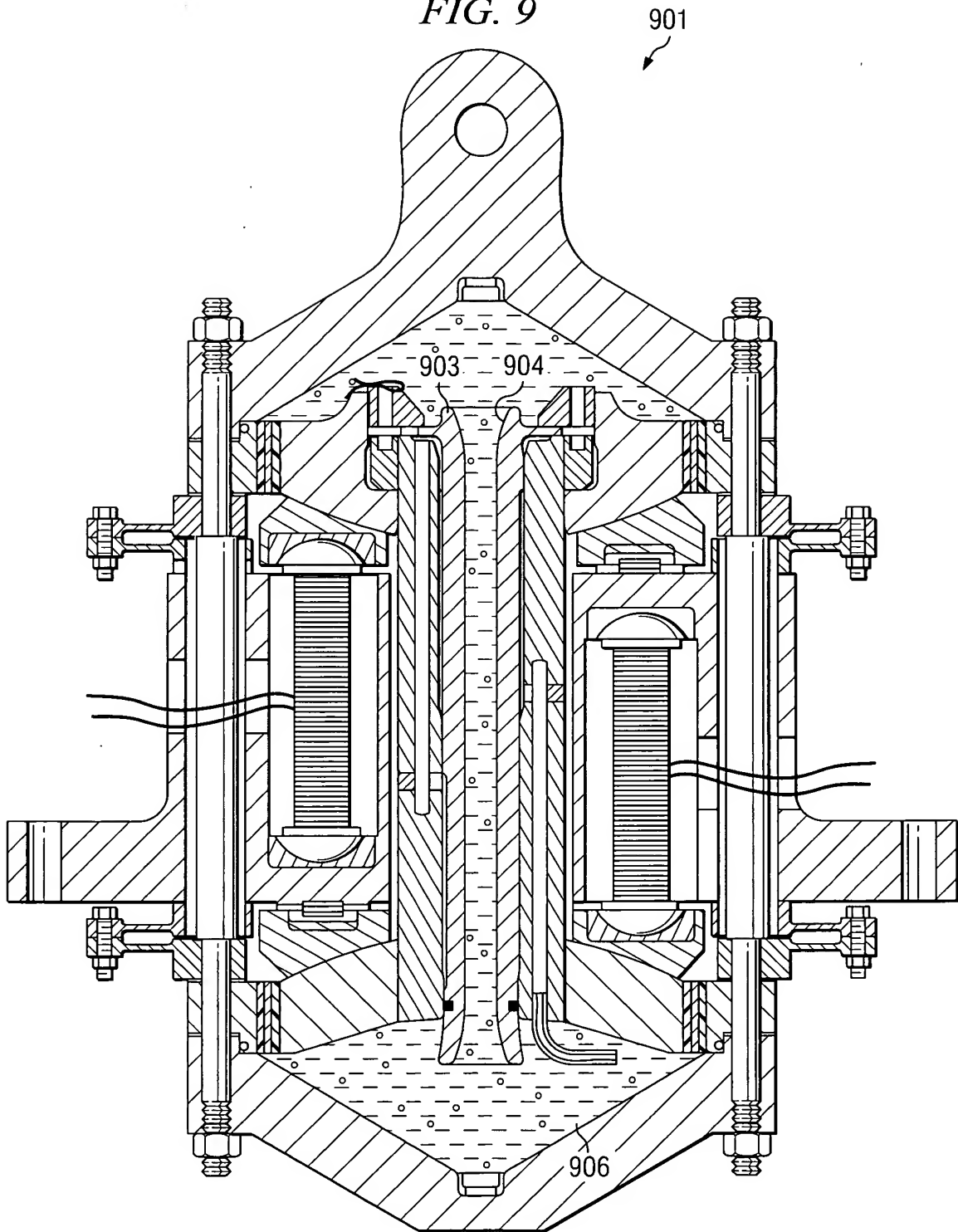
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FIG. 8

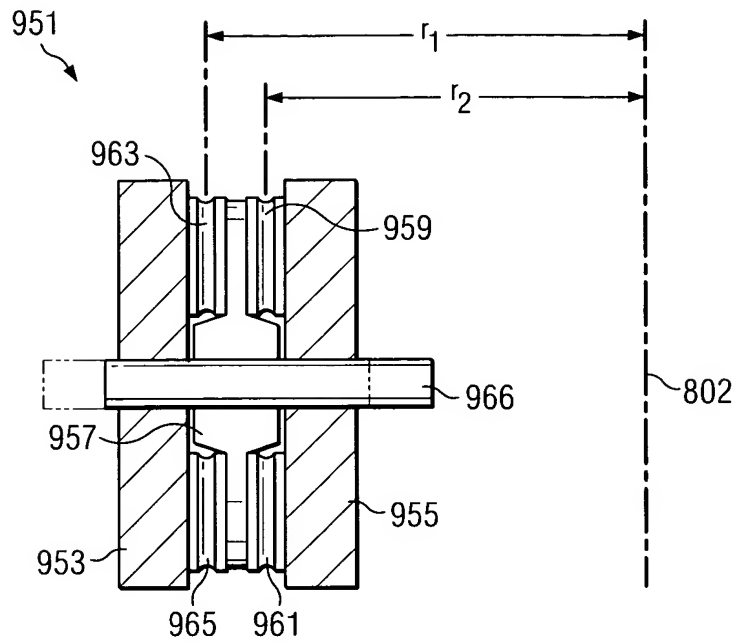
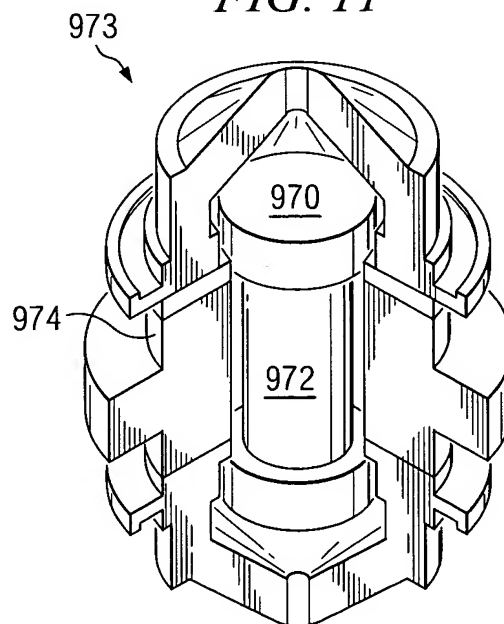


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FIG. 9

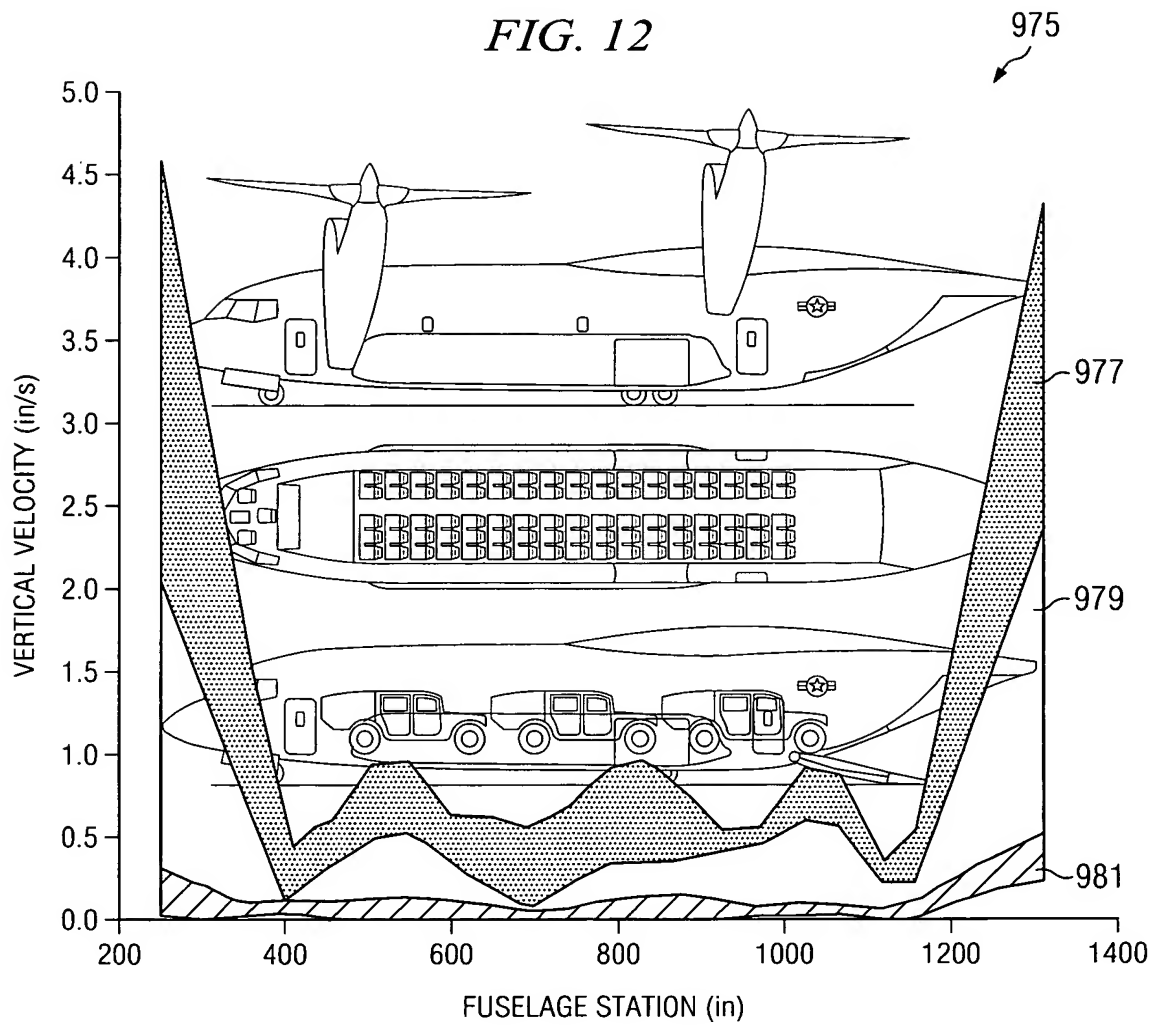


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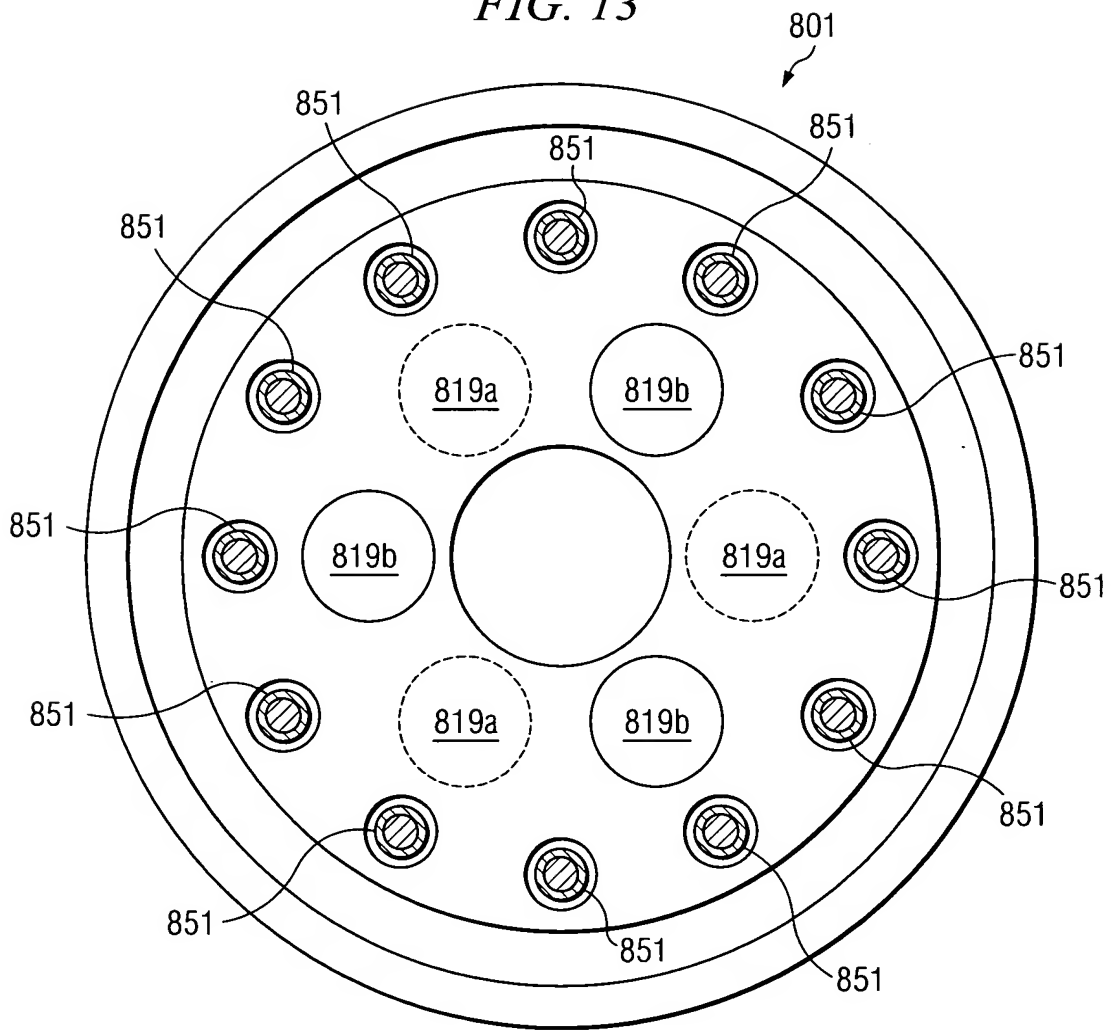
FIG. 10*FIG. 11*

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FIG. 12

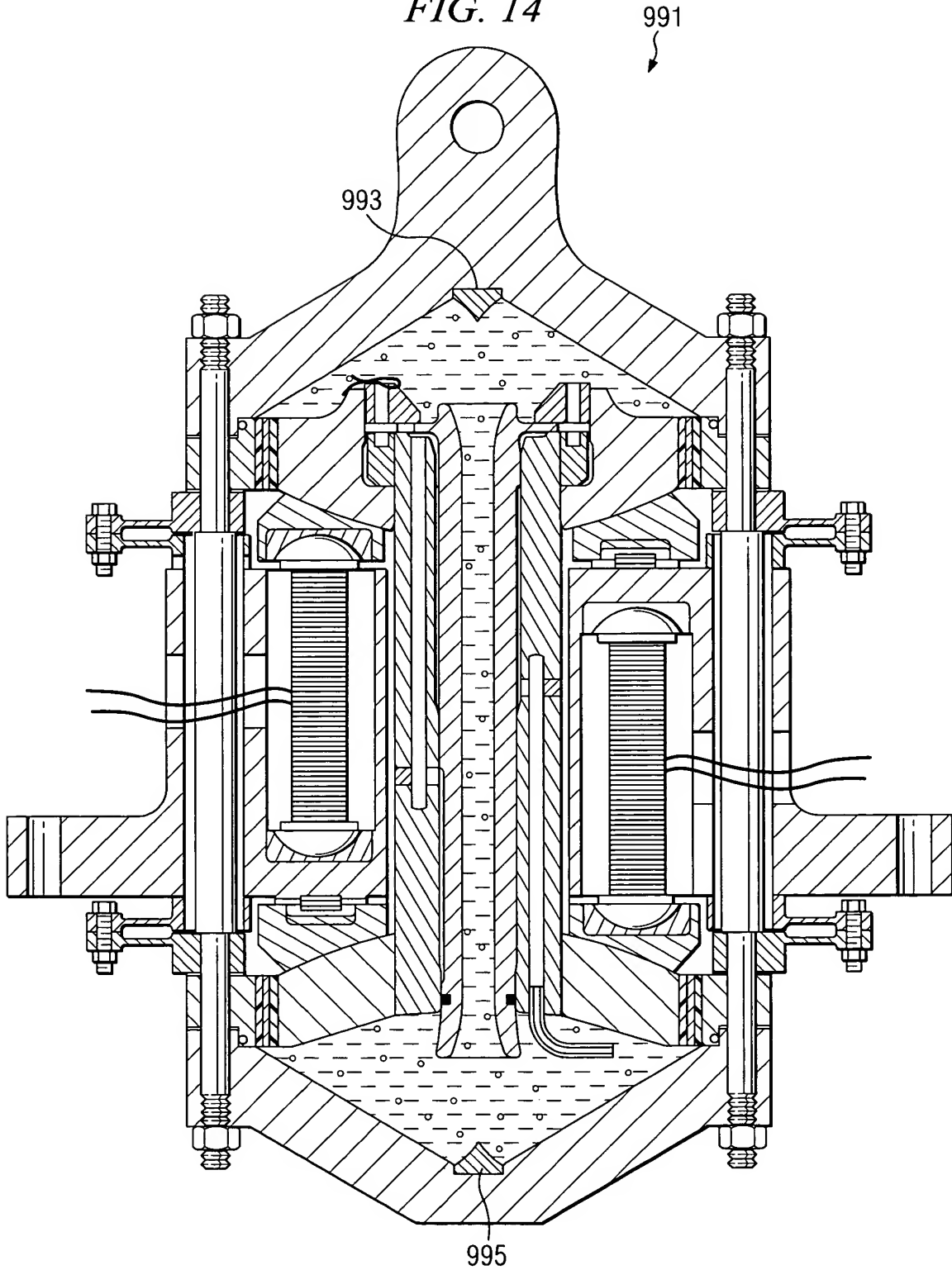


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FIG. 13

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FIG. 14



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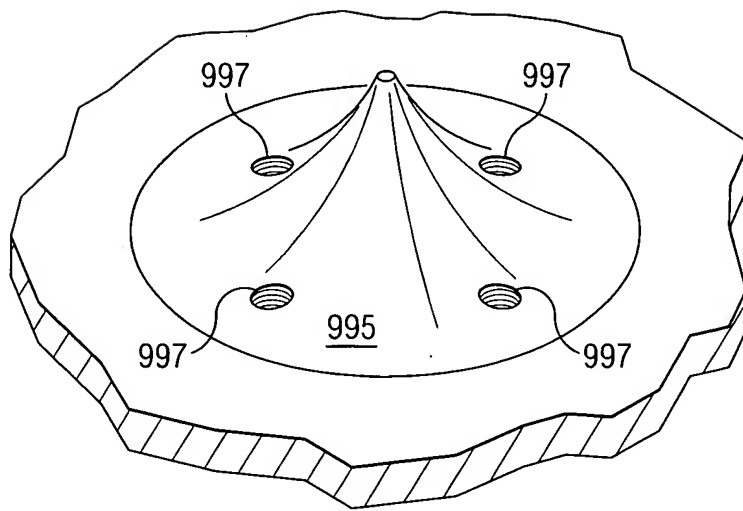


FIG. 15

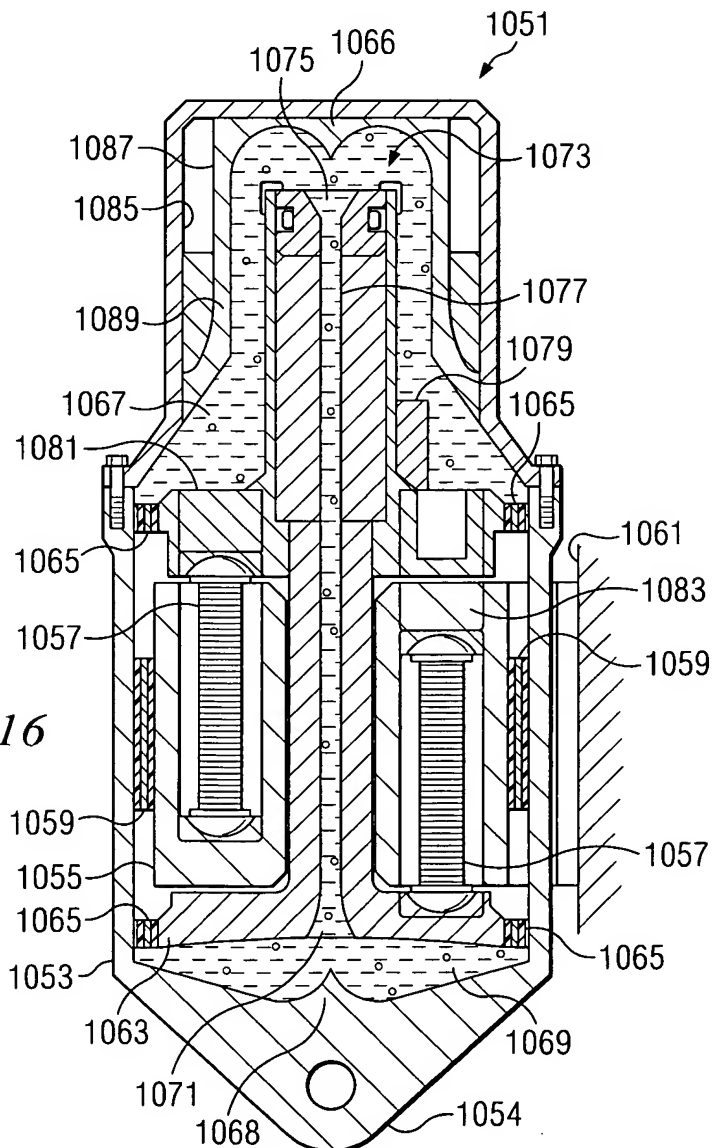
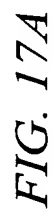


FIG. 16



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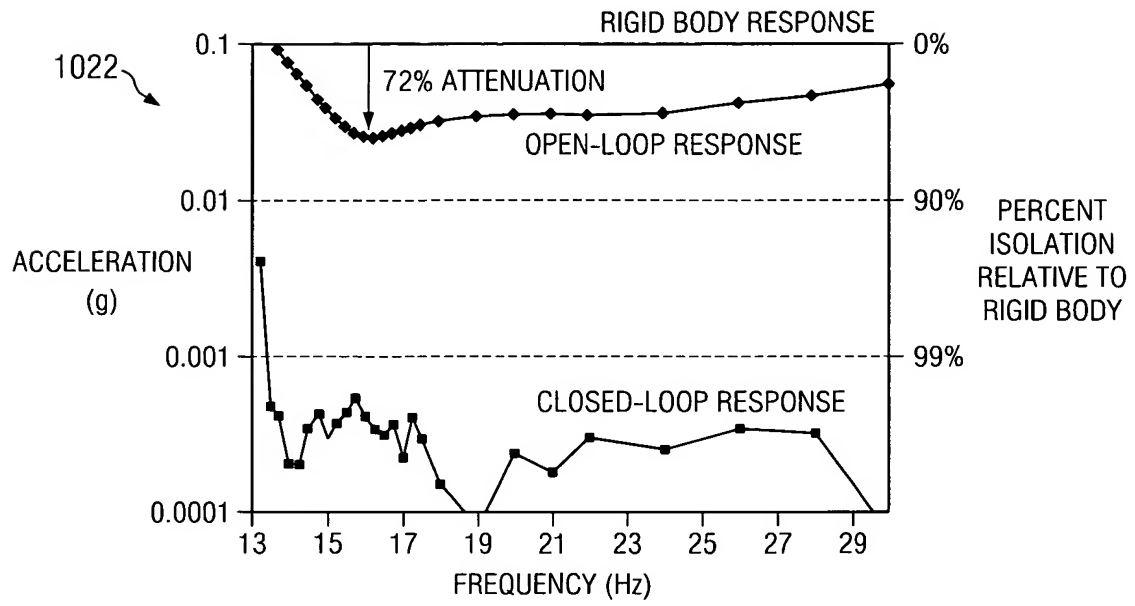


FIG. 17B

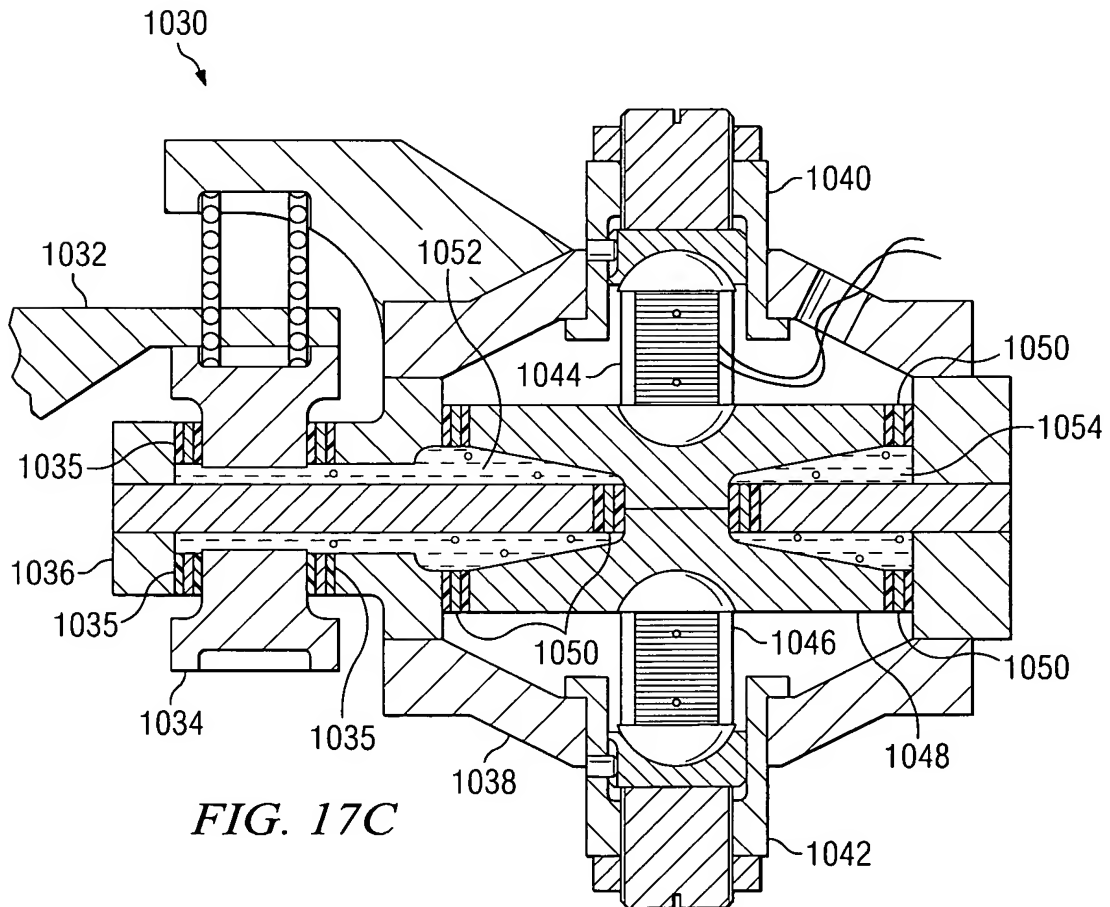


FIG. 17C

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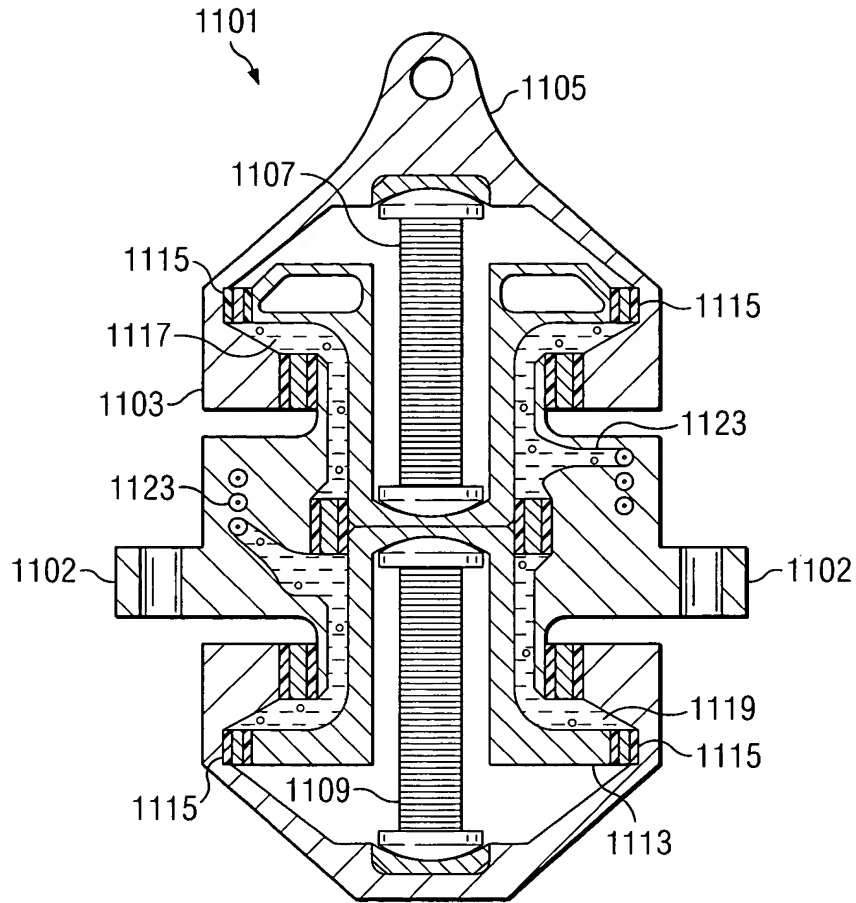


FIG. 18

GOVERNING EQUATION FOR
ISOLATION FREQUENCY

$$f_{\text{isolation}} = \frac{1}{2\pi} \sqrt{\frac{4K\eta g}{R_{\text{LIVE}}(R_{\text{LIVE}} - 1)\pi d_t^2 l_t \rho_t}}$$

FIG. 19A

AREA RATIOS

$$R_{\text{piezo}} = \frac{(2.1884)^2}{(1.1447)^2} = 3.65$$

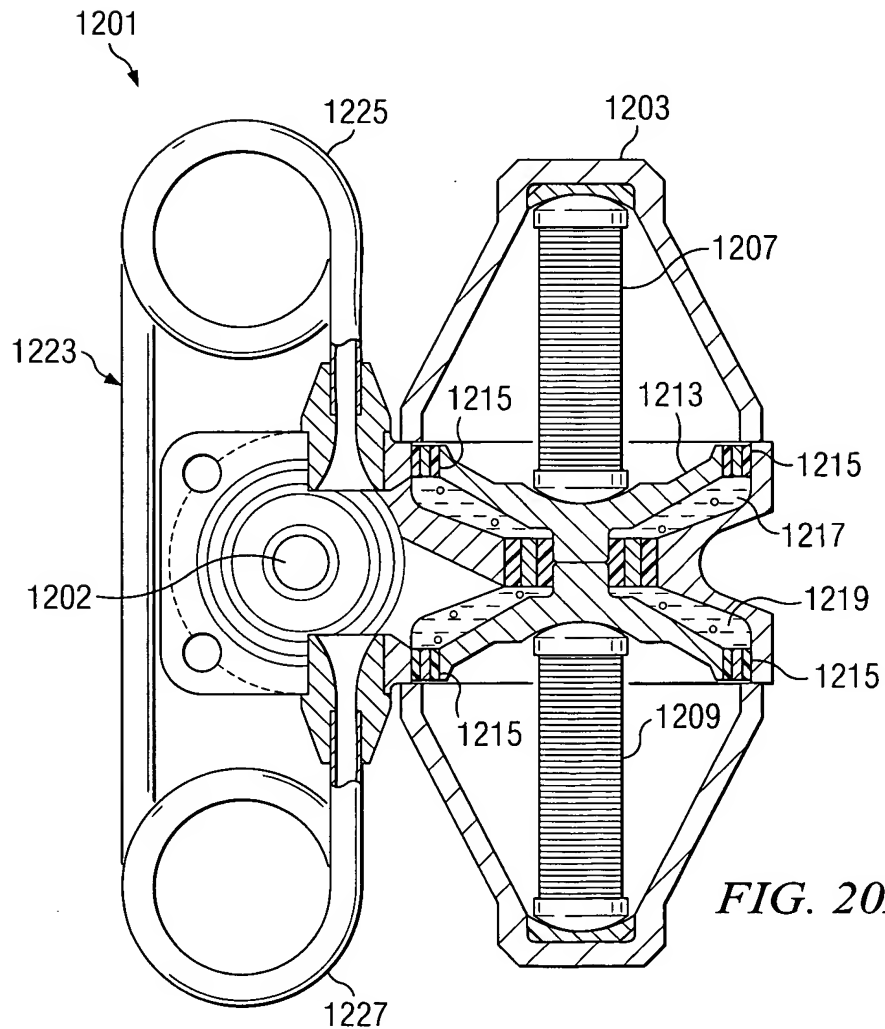
FIG. 19B

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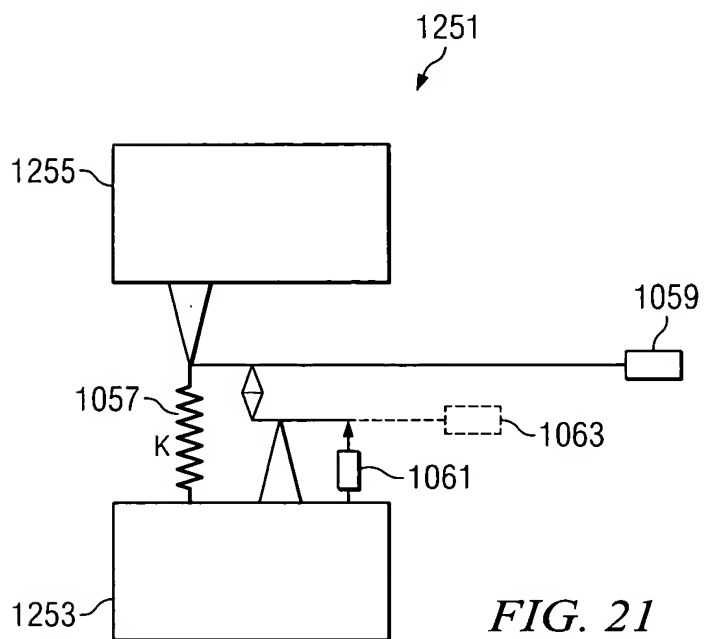
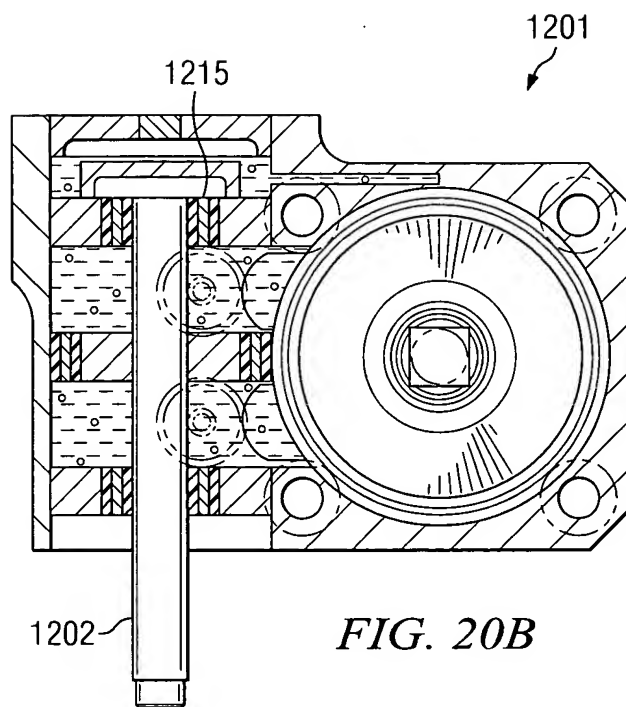
LENGTH AND NUMBER OF TURNS
OF FLUID TUNING PASSAGE

$$l_t = \frac{4K\eta g}{R_{LIVE}(R_{LIVE}-1)\pi d_t^2 \rho_t (2\pi f_{isolation})^2}$$

$$N = \frac{l_t}{2\pi r_t}$$

FIG. 19C

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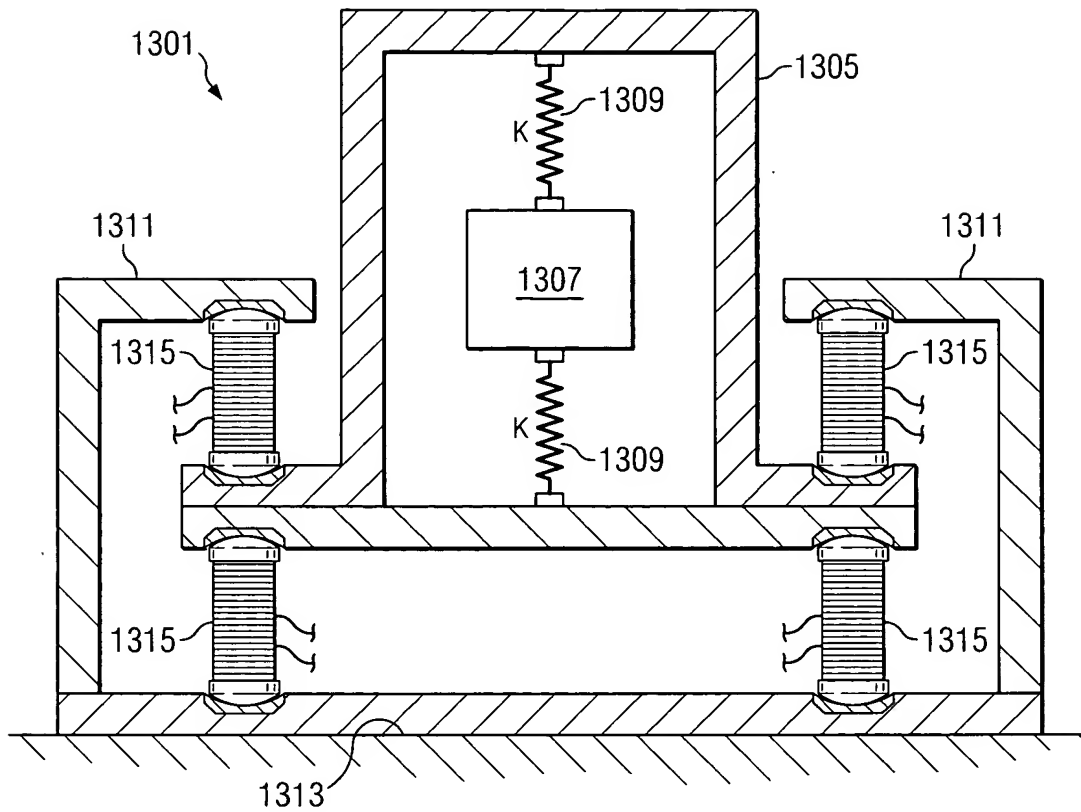


FIG. 22A

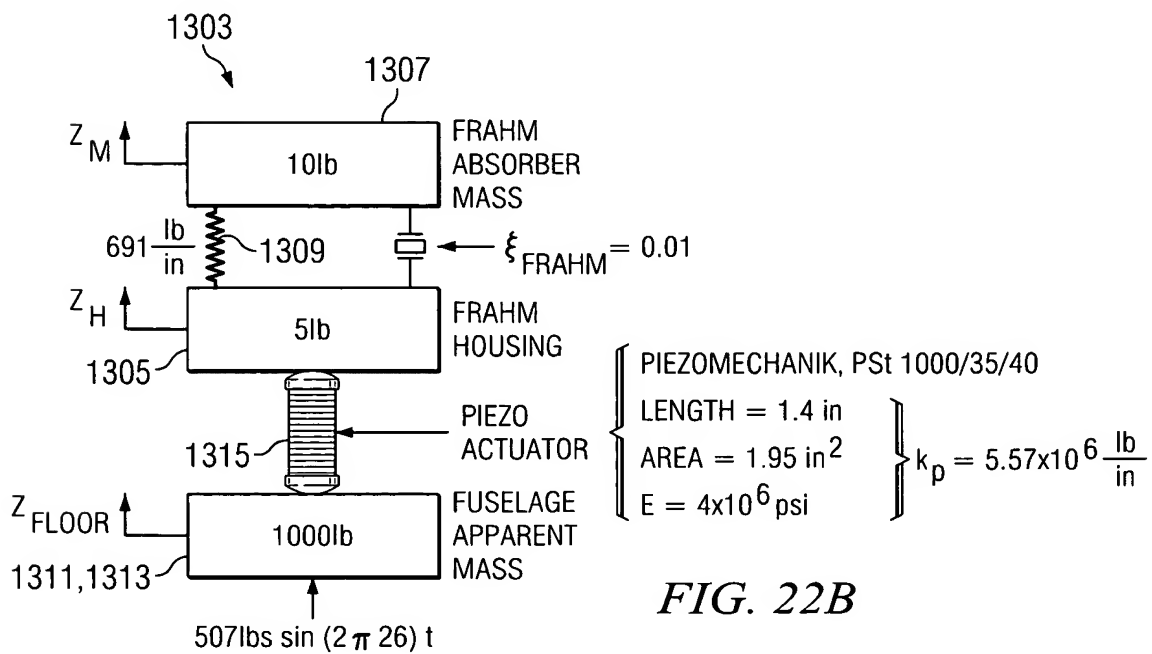


FIG. 22B

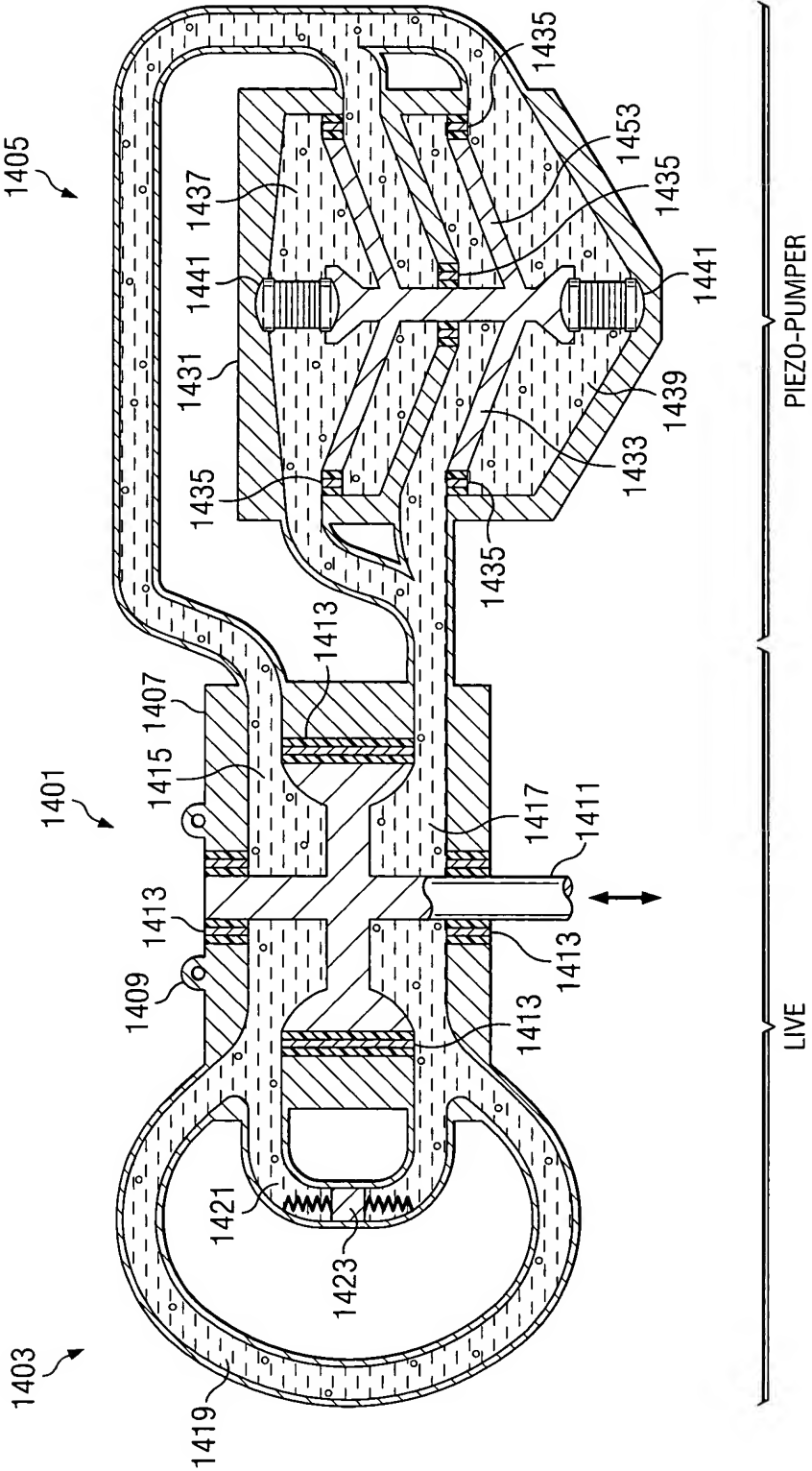
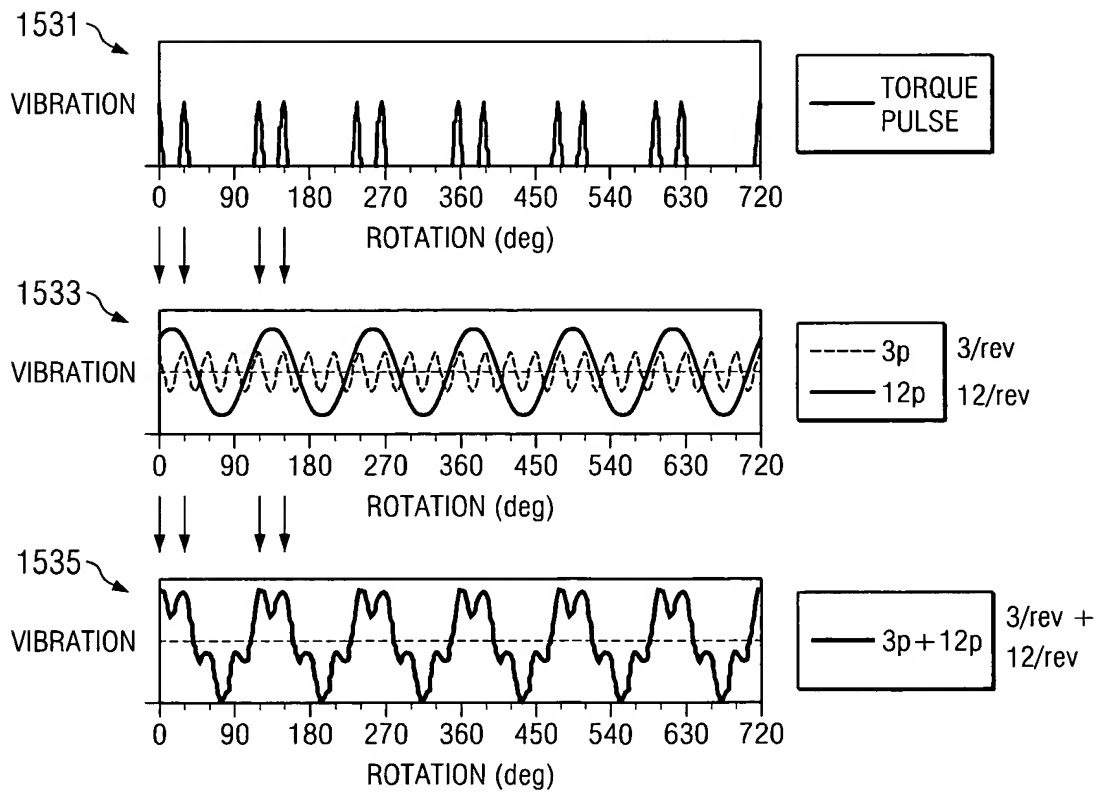
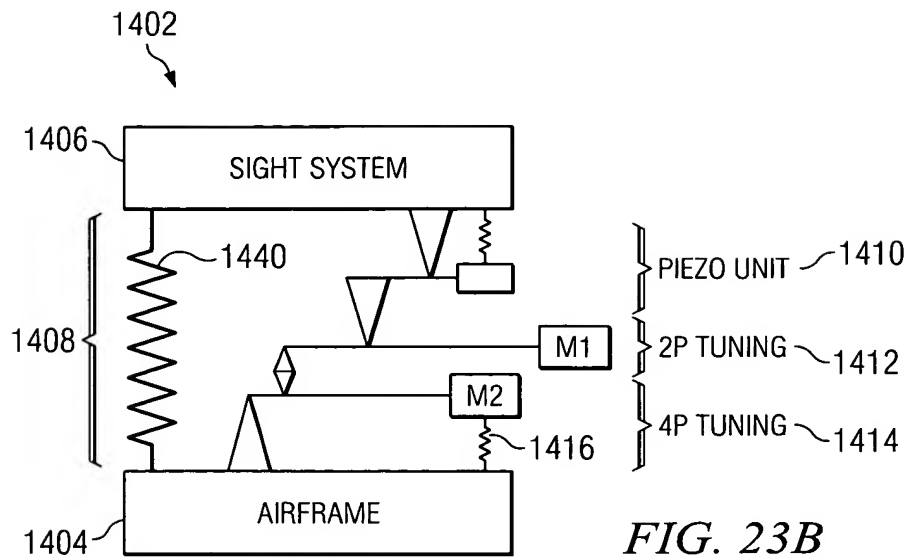
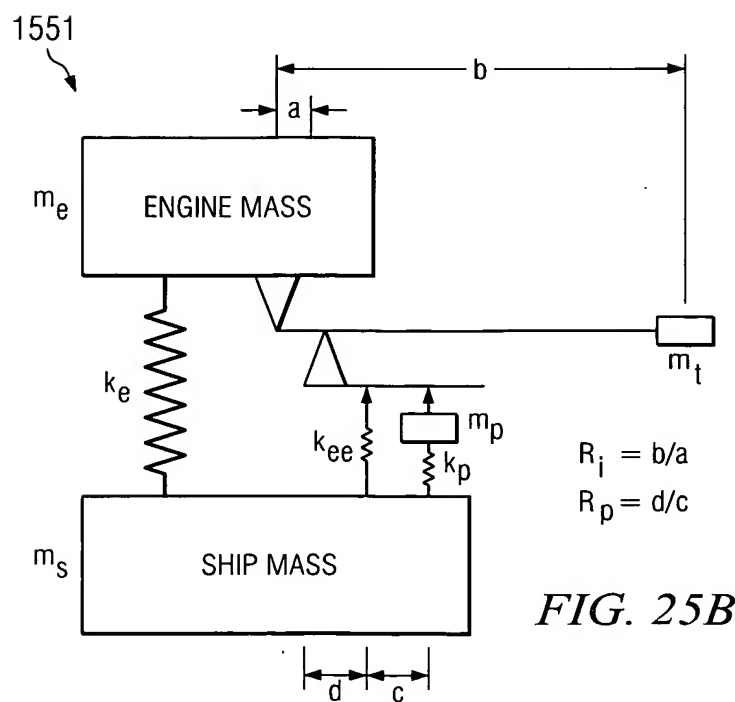
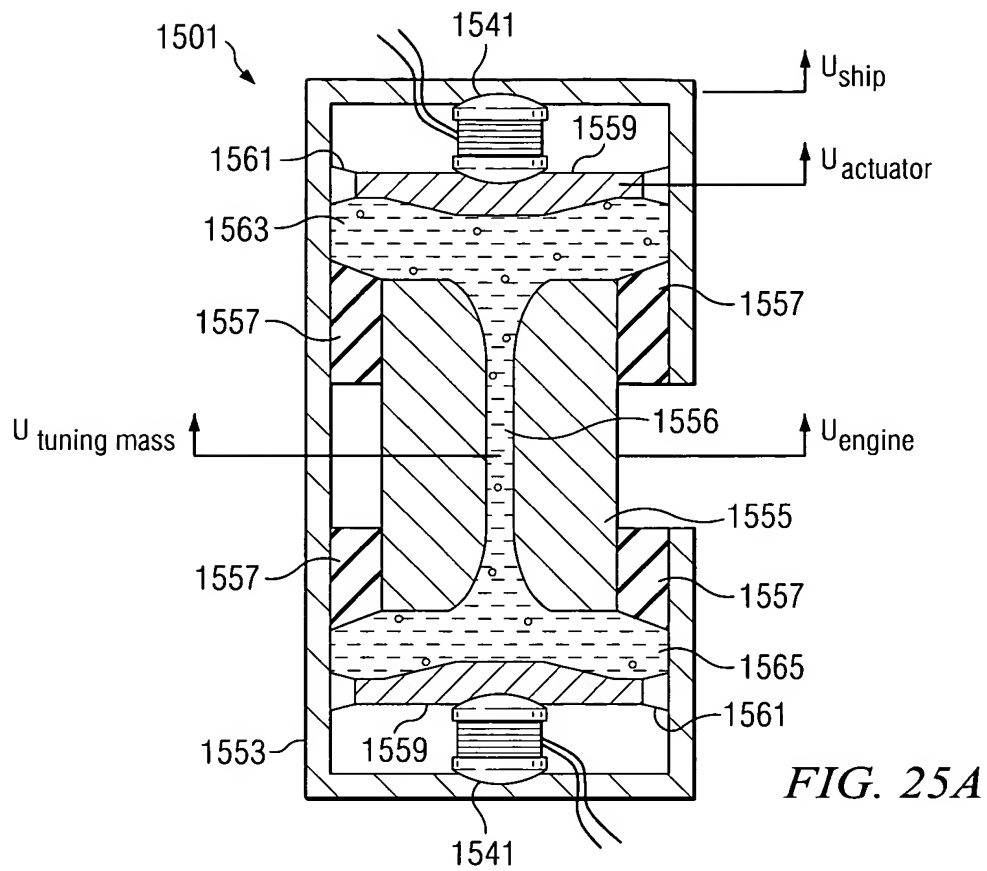


FIG. 23A

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**FIG. 24**

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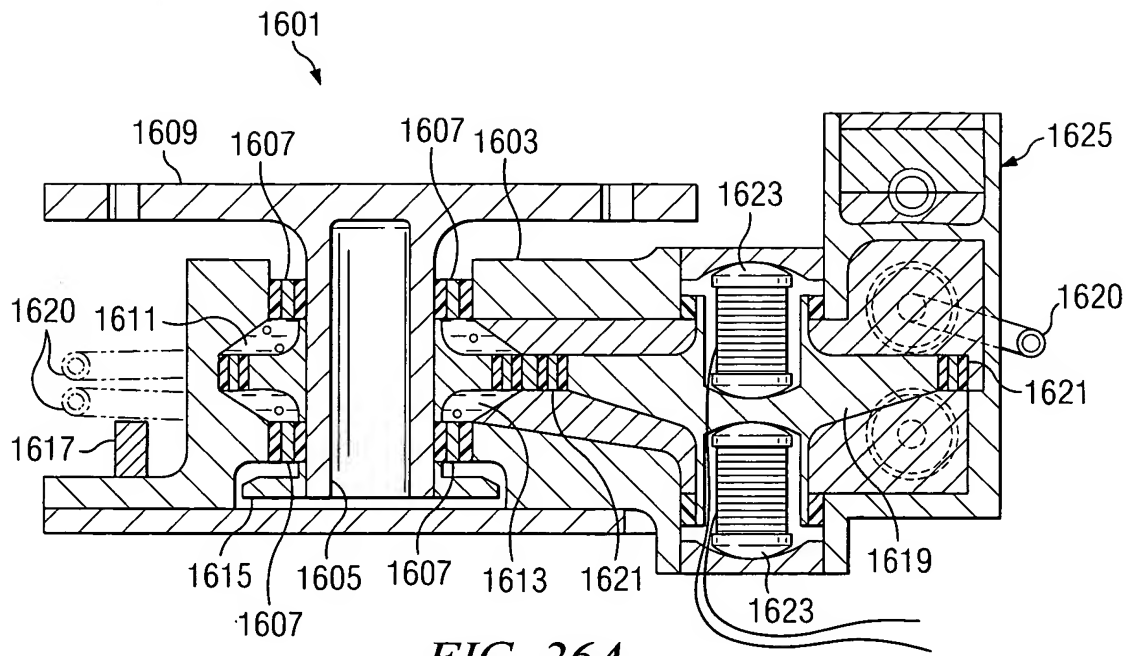


FIG. 26A

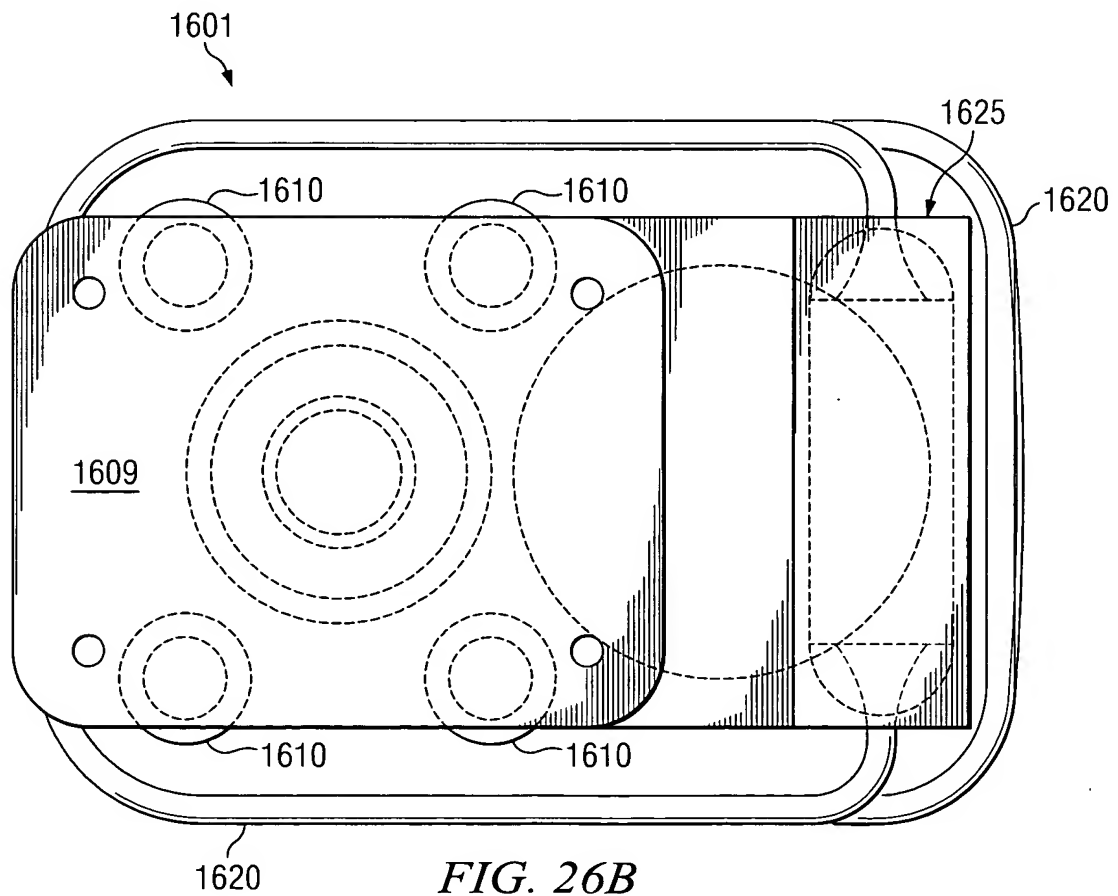


FIG. 26B

FIG. 26C

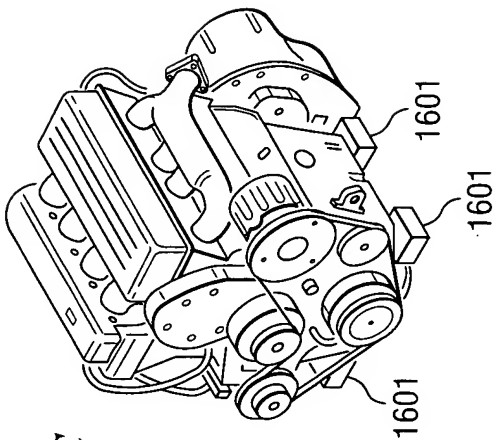


FIG. 27

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